

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended): A system for providing assistance in the regeneration of depollution means ~~(1)~~ associated with oxidation catalyst-forming means ~~(2)~~, the means being integrated in an exhaust line ~~(3)~~ of a motor vehicle diesel engine ~~(4)~~ and in which the engine ~~(4)~~ is associated with common manifold means ~~(7)~~ for feeding the cylinders of the engine with fuel, and being adapted at constant torque to implement a strategy of regeneration by injecting fuel into the cylinders in at least one post-injection, the system ~~being characterized in that it comprises~~ comprising:

- means ~~(8)~~ for detecting a regeneration request ~~(req.RG)~~ and thus a request for post-injection;
- means ~~(9)~~ for detecting a period in which the engine is idling;
- means ~~(11)~~ for acquiring the temperature downstream from the catalyst-forming means ~~(2)~~;
- means ~~(8)~~ for determining a maximum quantity of fuel to be injected during post-injections while the engine is idling, on the basis of said temperature; and
- reduction means ~~(7, 8)~~ for progressively reducing the or each post-injection as soon as the quantity of fuel that has been injected reaches the predetermined maximum quantity.

2. (Currently amended): A system according to claim 1, ~~characterized in that wherein~~ the reduction means ~~(7, 8)~~ are adapted to reduce the or each post-injection in application of a calibratable slope ~~(18)~~.

3. (Currently amended): A system according to claim 1 ~~or claim 2, characterized in that,~~ wherein the depollution means ~~(1)~~ comprise a particle filter.

4. (Currently amended): A system according to claim 1, ~~2, or 3, characterized in that~~wherein the depollution means ~~(1)~~ comprise a NOx trap.

5. (Currently amended): A system according to ~~any preceding claim, characterized in that~~ 1, wherein the fuel includes an additive for becoming deposited together with the particles with which it is mixed on the depollution means ~~(1)~~ in order to facilitate regeneration thereof.

6. (Currently amended): A system according to ~~any one of claims 1 to 4, characterized in that,~~ wherein the fuel includes an additive forming a NOx trap.

7. (Currently amended): A system according to ~~any preceding claim, characterized in that~~ 1, wherein the engine is associated with a turbocharger ~~(5, 6)~~.